

## ABSTRACT

The present invention includes a chemical monolayer construction that comprises:

- 5 (a) a substrate having a contact surface; and (b) a plurality of substantially parallel molecular units, wherein said molecular units are attached to said substrate so as to be strongly coupled electronically to said substrate, such as through a conjugated bond.

The present invention also includes electronic circuit components and devices including a chemical monolayer construction of the present invention.

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